PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD (Frederick Road) and Redland Blvd / Redland Rd in Montgomery County. MD (Frederick Road) is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA seven-phase, semi-actuated mode, with the MD 355 (Frederick Road) approaches continuing to run concurrently. Exclusive/Permissive left turn phases shall continue to be provided for both approaches of MD (Frederick Road). The pedestrian phase with pushbutton actuation across the north leg of MD (Frederick Road) shall remain in operation. The pedestrian phases across Redland Blvd / Redland Rd shall remain on recall. Farside sampling stations shall remain in operation on both legs of MD (Frederick Road) at this intersection. A new Exclusive/Permissive left turn phase shall be provided for the eastbound approach of Redland Blvd. The Redland Blvd / Redland Rd approaches shall also continue to run concurrently.
- 2. The existing full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

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- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- 2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Mr. Bob Gonzales at (240) 777-8761 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- A. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
8088	R10-12 "LEFT TURN YIELD ON GREEN BALL" sign, (36"x42") span wire mounted.	1 Each

EEQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUAN	TITY
1001	Maintenance of Traffic	1	Day
8067	7-conductor electrical cable (No. 14 A.W.G.).	500	L.F.
8116	Adjust span or tether.	4	Each
8148	Removal and salvage of signs less than 50 S.F.	1	Each
8162	Removal and salvage of any signal head.	3	Each
Neg.	Furnish and install 12" vehicular traffic signal head section (Black Faced)	15	Each

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff Assistant District Engineer – Traffic Phone: (301) 513–7318

Mr. Wayne Mowdy Assistant District Engineer - Maintenance Phone: (301) 513-7304

Mr. Augie Rebish District Engineer - Utility Phone: (301) 513-7350

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787–7630

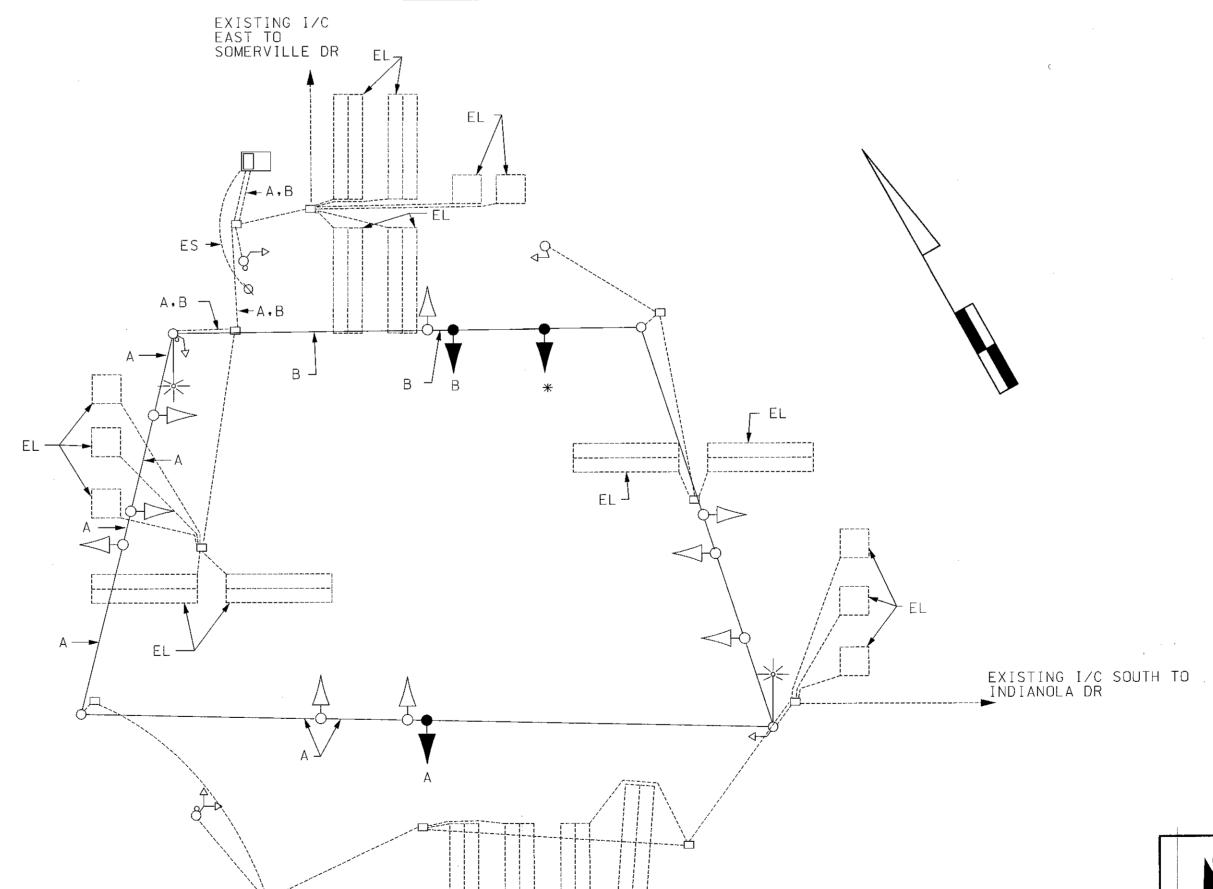
Mr. Ed Rodenhizer Signal Shop 410-787-7652

Mr. Sonny Bailey Sign Shop 410-787-7670 PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
■ Y-	R	R Y-Y-Y 4G-G	R Y G	(R) (Y) (Y) (G) (G)	(R) (Y) (Y) (G) (G)	RYG	(R) (Y)(Y) (G)(G)	R (R) (Y-) (Y) (4G) (G)	(R) (Y)(-YI) (G)(-GI	R Y G	R	R Y G	P	5	小	\$	E 2	№
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PHASE 1 & 5	4 -G/R	← G-/R	R	∢ -G-/R	4 -G-/R	R	R	R	R/- G →	R	R	R	DW	DW	DW	DW	DW	DW	-
CHANGES TO PHASES	1 & 6, 2	& 5 OF	R 2 & 6							~									
PHASE 1 & 6	4 -G-/G	∢ -G/G	G	R	R	R	R	R	R/- G →	R	R	R	D₩	WK	WK	DW	DW	DW	•
1 & 6 CHANGE	4 -Y -/G	← Y-/G	G	R	R	R	R	R	R/ - Y →	R	R	R	DW	WK	WK	DW	DW	DW	-
PHASE 2 & 5	R	R	R	4 -G-/G	4 -G-/G	G	R	R	R	R	R	R	wĸ	DW	DW	WK	DW	DW	1
2 & 5 CHANGE	R	R	R	∢ -Y-/G	4 -Y-/G	G	R	R	R	R	R	R	WK	DW	DW .	WK	DW	DW	•
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	D₩	•
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	
2 & 6 CHANGE	Y	Y	Y	Y	· Y	Y	R	R	R	R	R	R .	DW	DW	DW	DW	DW	DW	•
PHASE 4 & 7	R	R	R	R	R	R	4 -G-/G	◆ G-/G	G	R	R	R	DW	DW	DW	DW	DW	D₩	
4 & 7 CHANGE	R	R	. R	R	R	R	4 -Y-/G	◆ Y-/G	G	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW .	DW	DW	DW	ļ ,
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	1
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	D₩	D₩	WK	WK	•
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	
4 & 8 ALT CHANGE	R	R	R	R	R	R	· Y	Y	. Y	Y	Υ	Y	DW	DW	DW	DW	DW	DW	1
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	4

WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL B } CABLE (NO. 14 A.W.G)
- * USE EXISTING CABLE
- EL LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES EXISTING UNDERGROUND SERVICE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 AT REDLAND BLVD./REDLAND ROAD

DRAWN BY: RC	F.A.P. NO.	N/A	TS NO.	
CHECKED BY: RRZ	S.H.A. NO.	N/A	.3636B 366\$	B SHEET NO.
SCALE: NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO.	
DATE: 11/5/04	LOG MILE:	15035511.95	G055	0F <u>2</u>

STREET TRAFFIC STUDIES, LTD. 400 Crain Hwy., N.W. Glen Burnie, MD 21061